

L9 ANSWER 18 OF 29 CAPLUS COPYRIGHT 2003 ACS on STN

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TITLE: Water- and oil-repelling products for wet treating of  
fibers

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PATENT ASSIGNEE(S): Daikin Kogyo Co., Ltd.

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CODEN: JKXXAF

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PATENT INFORMATION:

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AB Maleic anhydride and (or) maleic acid (I) [110-16-7] are added to an aq. dispersion of a copolymer with C3-21 fluoroalkyl pendant groups derived from  $\text{CH}_2:\text{CRCO}_2\text{CH}_2\text{CH}(\text{O}_2\text{CR}_1)\text{CH}_2\text{R}_2$  ( $\text{R} = \text{H}$  or  $\text{Me}$ ,  $\text{R}_1 = \text{C}_1\text{-17 alkyl}$ ,  $\text{R}_2 = \text{perfluoroalkyl}$ ) and \*\*\*acrylic\*\*\* acid, methacrylic acid, and (or) their esters to give a water- and oil-repellent agent. Thus, a nylon textile was immersed in an \*\*\*emulsion\*\*\* contg. 0.5 wt. % I and 0.5 wt. % 2-ethylhexyl methacrylate-N-methylolacrylamide-3-[7-(trifluoromethyl)perfluorooctyl]-2-acetoxypopyl \*\*\*acrylate\*\*\* copolymer [ \*\*\*52830-82-7\*\*\* ], squeezed to 50% pickup, dried 10 min at 88.deg., and heated 3 min at 140.deg.. The textile had water repellency (JIS L 1004-22) 80 and oil repellency (AATCC 118-66T) 7.

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